ALEX MACHIN-MAYES

GIS PROFESSIONAL

CONTACT

- 360-527-6216
- alexmachinmayes@gmail.com
- alexmachinmayes.github.io
- Bellingham, WA 98225

EDUCTATION

MS, CARTOGRAPHY AND GIS
University of Wisconsin - Madison, 2021
Phi Kappa Phi | 4.0/4.0 GPA

BA, HUMAN GEOGRAPHY
MINOR, GIS
Western Washington University, 2012

CORE SKILLS

GIS Processing & Analysis
Cartographic Visualization
Geodatabase Configuration
GPS Data Collection
Web Map Development

PROFICIENCIES

GIS
ArcGIS Desktop & Pro, ArcGIS
Online, ArcGIS for Collector, Model
Builder, Parcel Fabrics, LGIM, ArcGIS
Developer, QGIS, GRASS

Geodatabases
SQL, schemas, topologies, coded
domains, relationship classes

Related Tools
Adobe Creative Suite, Trimble
Pathfinder Office, U.S. Census data
mapping, urban & international
geography, research & writing

Working Knowledge
ArcGIS API for JavaScript, HTML, CSS,
JavaScript, Bootstrap, Python, ArcPy,
Leaflet, Mapbox, PostgreSQL

PROFILE

Resourceful and self-driven GIS expert with eight years of professional
experience. Skilled in the use of GIS tools, geodatabases, cartography, and GPS
data collection to streamline data access and visualize geospatial information.
Have contributed maps, analysis, and support to a diverse range of project
managers, experts, technicians, and tribal government departments.

WORK EXPERIENCE

GIS CONSULTANT

Falcon Cultural Resources | Skagit County, WA   2019-Present

- Produce archaeological site maps and shapefiles for reports to the DAHP.
- Utilize aerial, LiDAR, historical USGS topographic basemaps and web services
  to give historical and ecological context to site areas.
- Provide GPS data processing and support for field data collection.
- Conduct viewshed analysis to visualize impact of proposed developments.

GIS PROPERTY SPECIALIST

Swinomish Indian Tribal Community | La Conner, WA   2014-2017

- Responsible for providing maps, analysis, database support and maintenance
  to Land Management, Planning, Environmental Protection, Housing,
  Archaeology, Forestry, and other tribal departments.
- Contributed to building and maintaining complex databases of government
  data and assets, including: zoning, parcels, buildings, roads, infrastructure,
  natural and cultural resources, and utilities.
- Produced maps and updates through the interpretation of land surveys, as-
  builts, legal property descriptions, and county assessor records, and research.
- Managed and maintained GIS data within the Planning Department system
  and published data for interdepartmental use to ArcGIS Online.
- Collaborated with project managers to design and configure custom database
  schemas for ArcGIS Collector apps; enhancing mobile GPS data efficiency

GIS TECHNICIAN

Independent Contractor | Bellingham, WA   2012-2014

- Built a large forest roads database for salmon habitat restoration using Road
  Maintenance and Abandonment Plan documents, georeferencing maps, and
  analyzing LiDAR and NAIP aerial imagery.
- Digitized the Nooksack River active channel footprint at large scale to update
  the National Hydrography Dataset.
- Assisted in the development of a comprehensive geodatabase and study
  template for studying steelhead habitat health indicators in the Hood Canal
  and Strait of Juan de Fuca regions for the NWIFC.